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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

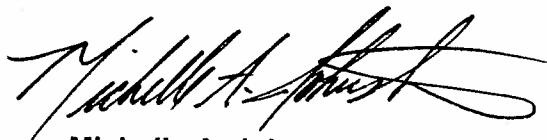
ANALYTICAL REPORT

Perfluorocarbon (PFC) Analysis

Lot #: D9J310193

Dena Haverland

**Dalton Utilities
1200 V.D. Parrot Jr. Parkway
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**Michelle A. Johnston
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January 21, 2010

Case Narrative

D9J310193

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. Dilution factors and footnotes are provided on each datasheet to assist in the interpretation of the results.

The results relate only to the samples in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have found to be compliant with laboratory protocols with any exceptions noted below.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL. Unless otherwise noted, results for solids have been dry weight corrected.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Arrival and Receipt

The following report contains the analytical results for seven samples received at TestAmerica Denver on October 31, 2009, according to documented sample acceptance procedures. The samples were received in good condition at a temperature of 2.7°C.

The chain-of-custody did not list a sample collection date or time for sample DUP. The sample was logged with a collection date of October 28, 2009, since October 28 is the earliest collection date listed on the chain-of-custody. The client was notified on November 3, 2009.

No other anomalies were encountered during sample receipt.

Standards

Analytical standards were prepared using commercially available certified solutions containing all compounds of interest.

The mass labeled compounds 13C4 PFBA, 13C2 PFHxA, 18O2 PFHxS, 13C4 PFOA, 13C4 PFOS, 13C5 PFNA, 13C2 PFDA, 13C2 PFUnA, 13C2 PFDoA, and D3 MeFOSA were introduced at the extraction step and were used for internal standards for the quantitation of the target compounds.

Sample Extraction and Analysis

The samples presented in this report were extracted for the target analytes by TestAmerica Denver's Standard Operating Procedure (SOP) DV-OP-0019 and analyzed for the target analytes by TestAmerica Denver's SOP DV-LC-0012.

Method QC Samples

The Method Blank is processed reagent water spiked with internal standard and prepared with each batch of 20 samples of the same matrix. The method blanks were non-detect at the reporting limits for the target analytes.

Each batch is prepared with low and mid level Laboratory Control Samples (LCS). The LCS recoveries for both levels were within established control limits, with the exception of the items noted in section Analytical Comments.

Analytical Comments

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to matrix interference and high concentrations of target analytes, samples 10-28-09-1 1975 HWY 52 EAST, 10-28-09-2 55 SOUTH LAKE DR, 10-28-09-4 MOUNTAIN HILL, 10-28-09-5 3158 MORRIS RD, and DUP had to be analyzed at dilutions. Due to high concentrations of target analytes, samples 10-28-09-3 1727 DENNIS MILL RD and 10-30-09-1 454 JIM PETTY RD had to be analyzed at dilutions. The reporting limits have been adjusted relative to the dilutions required.

Due to instrumentation problems, the 1X dilution of samples 10-28-09-3 1727 DENNIS MILL RD, 10-30-09-1 454 JIM PETTY RD, and the diluted analyses for all seven samples in batch 9308329 were analyzed past the laboratory recommended 40 day analysis holding time. Due to low internal standard recoveries & low percent recoveries in the mid-level LCS and a high percent recovery in the low-level LCS associated with batch 9308329, all seven samples were re-extracted out of the laboratory prescribed 14 day holding time and reanalyzed in batch 9357164. Both batches have been included in this report. There is no prescribed regulatory holding time requirement for PFCs. The scientific literature indicates PFCs are highly persistent compounds in the environment. TestAmerica Denver has conducted stability studies indicating medium- and low-level standard solutions of PFOA are stable for at least three months in glass, polystyrene, and polypropylene plastics at 4 ± 2 °C. The 7-day/40-day and 14-day/40-day holding times listed above are based on the general EPA convention for the holding time of extractable organic compounds in water and soil. Please note the sample results should be considered estimated.

The internal standard recovery for 13C2 PFDoA was recovered below 50% in samples 10-28-09-2 55 SOUTH LAKE DR, 10-28-09-3 1727 DENNIS MILL RD, and 10-30-09-1 454 JIM PETTY RD. These are the second extractions for all three samples. A third re-extraction and reanalysis was not performed since the associated samples had to be analyzed at 10X dilutions, due to matrix interference and/or high concentration of other PFCs.

The mid-level LCS/LCSD and low-level LCS associated with QC batch 9308329 exhibited percent recoveries and internal standard recoveries outside the QC control limits for several compounds. Upon re-extraction and reanalysis in QC batch 9357164, percent recovery outliers were still present for Perfluorooctanoic acid (PFOA) and Perfluorononanoic acid (PFNA). Both sets of data have been provided, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time.

The laboratory generated MS/MSD associated with QC batch 9308329 exhibited spike compound recoveries outside the QC control limits for Perfluorooctanesulfonate (PFOS) and Perfluoroctanoic acid (PFOA). The acceptable low-level and mid-level LCS analyses data indicated the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Spike compound recoveries and RPD data could not be calculated for the laboratory generated MS/MSD associated with QC batch 9308329, because the sample was diluted beyond the ability to quantitate recoveries. The acceptable mid-level and low-level LCS analyses data indicated the analytical system was operating within control.

Spike compound recoveries and RPD data could not be calculated for the MS/MSD performed on sample DUP associated with QC batch 9357164, because the sample was diluted beyond the ability to quantitate recoveries. The acceptable mid-level and low-level LCS analyses data indicated the analytical system was operating within control.

Lot #: D9J310193

The Standard Operating Procedure (SOP) was altered slightly for these samples in the sample prep and LC conditions. The alterations are listed below.

Solvents are now the same as they were in the original SOP and run per the following gradient: From 0 to 11 minutes, the flow rate is 0.4 mL/minute and the MeOH ramps up from 25% to 100%. From 11 to 11.01 minutes, the flow rate increases to 0.7 mL/minute and this flow is diverted from the MS. At 13 minutes the flow rate decreases back down to 0.4 mL/minute and 25% MeOH. The column then equilibrates to 14 minutes.

PFTriA and PFTeA now use 13C2 PFUnA as their internal standard instead of 13C2 PFDoA.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D9J310193

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
10-28-09-1 1975 HWY 52 EAST 10/28/09 10:35 001				
Perfluoroctanesulfonate	250	33	ug/kg	DEN -LC-0012
Perfluoroctanoic Acid	200	83	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	19 J	33	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	15 J	33	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	29 J	33	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	18 J	33	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	97	33	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	1200	33	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	640	83	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	770	83	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	340	83	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	160	33	ug/kg	DEN -LC-0012
Perfluoroctane sulfonamide (F)	280	83	ug/kg	DEN -LC-0012
Perfluoroctanesulfonate	250	33	ug/kg	DEN -LC-0012
Perfluoroctanoic Acid	220	83	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	27 J	33	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	27 J	33	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	43	33	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	39	33	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	110	33	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	1100	33	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	640	83	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	780	83	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	210	83	ug/kg	DEN -LC-0012
Perfluorotetradecanoic acid (P)	65 J	83	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	410	33	ug/kg	DEN -LC-0012
Perfluoroctane sulfonamide (F)	240	83	ug/kg	DEN -LC-0012
Percent Moisture	40	0.10	%	ASTM D 2216-90
10-28-09-2 55 SOUTH LAKE DR 10/28/09 11:46 002				
Perfluoroctanesulfonate	140	14	ug/kg	DEN -LC-0012
Perfluoroctanoic Acid	100	34	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	11 J	14	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	16	14	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	17	14	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	18	14	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	43	14	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	360	14	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	140	34	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	190	34	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	55	34	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	110	14	ug/kg	DEN -LC-0012

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EXECUTIVE SUMMARY - Detection Highlights

D9J310193

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
10-28-09-2 55 SOUTH LAKE DR 10/28/09 11:46 002				
Perfluorooctane sulfonamide (F 93	34	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate	110	ug/kg	DEN -LC-0012	
Perfluorooctanoic Acid	86	ug/kg	DEN -LC-0012	
Perfluorobutanoic acid (PFBA)	8.2 J	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA)	16 J	ug/kg	DEN -LC-0012	
Perfluorheptanoic acid (PFHpA)	20 J	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA)	45	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA)	280	ug/kg	DEN -LC-0012	
Perfluoroundecanoic acid (PFUn	120	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo	180	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT	42 J	ug/kg	DEN -LC-0012	
Perfluorotetradecanoic acid (P	28 J	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB	130	ug/kg	DEN -LC-0012	
Perfluorooctane sulfonamide (F	76	ug/kg	DEN -LC-0012	
Percent Moisture	27	0.10	%	ASTM D 2216-90
10-28-09-3 1727 DENNIS MILL RD 10/28/09 13:20 003				
Perfluorooctanesulfonate	120	2.6	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	63	6.4	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	6.0	2.6	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	7.2	2.6	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	9.1	2.6	ug/kg	DEN -LC-0012
Perfluorheptanoic acid (PFHpA	7.4	2.6	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	28	2.6	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn	92	6.4	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo	100	6.4	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT	36	6.4	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB	51	2.6	ug/kg	DEN -LC-0012
Perfluorooctane sulfonamide (F	97	6.4	ug/kg	DEN -LC-0012
Perfluorooctanesulfonate	120	26	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	61 J	64	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	5.5 J	26	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	12 J	26	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	33	26	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	210	26	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn	92	64	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo	87	64	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT	24 J	64	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB	75	26	ug/kg	DEN -LC-0012
Perfluorooctane sulfonamide (F	81	64	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	160	26	ug/kg	DEN -LC-0012
Percent Moisture	22	0.10	%	ASTM D 2216-90

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EXECUTIVE SUMMARY - Detection Highlights

D9J310193

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
10-28-09-4 208 MOUNTAIN TRAIL 10/28/09 14:45 004				
Perfluorooctanesulfonate	470	32	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	190	81	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	13 J	32	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	18 J	32	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	34	32	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	31 J	32	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	79	32	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	1400	32	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	670	81	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	480	81	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	190	81	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	94	32	ug/kg	DEN -LC-0012
Perfluorooctane sulfonamide (F)	490	81	ug/kg	DEN -LC-0012
Perfluorooctanesulfonate	440	32	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	200	81	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	17 J	32	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	18 J	32	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	39	32	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	35	32	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	100	32	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	1500	32	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	690	81	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	470	81	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	160	81	ug/kg	DEN -LC-0012
Perfluorotetradecanoic acid (P)	43 J	81	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	210	32	ug/kg	DEN -LC-0012
Perfluorooctane sulfonamide (F)	410	81	ug/kg	DEN -LC-0012
Percent Moisture	38	0.10	%	ASTM D 2216-90

10-28-09-5 3158 MORRIS RD 10/28/09 15:05 005

Perfluorooctanesulfonate	150	17	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	200	42	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	12 J	17	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	16 J	17	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	15 J	17	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	15 J	17	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	37	17	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	410	17	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn)	150	42	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo)	190	42	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT)	31 J	42	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB)	160	17	ug/kg	DEN -LC-0012

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EXECUTIVE SUMMARY - Detection Highlights

D9J310193

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
10-28-09-5 3158 MORRIS RD 10/28/09 15:05 005				
Perfluorooctane sulfonamide (F 70	42	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate	34	ug/kg	DEN -LC-0012	
Perfluorooctanoic Acid	84	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 17 J	34	ug/kg	DEN -LC-0012	
Perfluoroheptanoic acid (PFHpA 18 J	34	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 35	34	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 370	34	ug/kg	DEN -LC-0012	
Perfluoroundecanoic acid (PFUn 120	84	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo 130	84	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT 28 J	84	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 170	34	ug/kg	DEN -LC-0012	
Perfluorooctane sulfonamide (F 50 J	84	ug/kg	DEN -LC-0012	
Percent Moisture	41	0.10	%	ASTM D 2216-90
10-30-09-1 454 JIM PETTY RD 10/30/09 10:15 006				
Perfluorooctanesulfonate	16	2.4	ug/kg	DEN -LC-0012
Perfluorooctanoic Acid	42	6.0	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA) 5.4	2.4	ug/kg	DEN -LC-0012	
Perfluoropentanoic acid (PFPA) 5.2	2.4	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 7.0	2.4	ug/kg	DEN -LC-0012	
Perfluoroheptanoic acid (PFHpA 7.1	2.4	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 16	2.4	ug/kg	DEN -LC-0012	
Perfluoroundecanoic acid (PFUn 94	6.0	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT 40	6.0	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 26	2.4	ug/kg	DEN -LC-0012	
Perfluorooctane sulfonamide (F 82	6.0	ug/kg	DEN -LC-0012	
Perfluorooctanesulfonate 13 J	24	ug/kg	DEN -LC-0012	
Perfluorooctanoic Acid 42 J	60	ug/kg	DEN -LC-0012	
Perfluorobutanoic acid (PFBA) 4.7 J	24	ug/kg	DEN -LC-0012	
Perfluorohexanoic acid (PFHxA) 11 J	24	ug/kg	DEN -LC-0012	
Perfluorononanoic acid (PFNA) 19 J	24	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 200	24	ug/kg	DEN -LC-0012	
Perfluoroundecanoic acid (PFUn 93	60	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo 170	60	ug/kg	DEN -LC-0012	
Perfluorotridecanoic acid (PFT 25 J	60	ug/kg	DEN -LC-0012	
Perfluorotetradecanoic acid (P 19 J	60	ug/kg	DEN -LC-0012	
Perfluorobutane sulfonate (PFB 46	24	ug/kg	DEN -LC-0012	
Perfluorooctane sulfonamide (F 70	60	ug/kg	DEN -LC-0012	
Perfluorodecanoic acid (PFDA) 140	24	ug/kg	DEN -LC-0012	
Perfluorododecanoic acid (PFDo 120	60	ug/kg	DEN -LC-0012	
Percent Moisture	16	0.10	%	ASTM D 2216-90

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EXECUTIVE SUMMARY - Detection Highlights

D9J310193

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
DUP 10/28/09 007				
Perfluoroctanesulfonate	210	33	ug/kg	DEN -LC-0012
Perfluoroctanoic Acid	180	81	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	19 J	33	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	17 J	33	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	31 J	33	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA)	23 J	33	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	79	33	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	920	33	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn 510		81	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo 640		81	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT 200		81	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB 140		33	ug/kg	DEN -LC-0012
Perfluoroctane sulfonamide (F 220		81	ug/kg	DEN -LC-0012
Perfluoroheptanoic acid (PFHpA 110		33	ug/kg	DEN -LC-0012
Perfluorononanoic acid (PFNA)	180	33	ug/kg	DEN -LC-0012
Perfluorodecanoic acid (PFDA)	1100	33	ug/kg	DEN -LC-0012
Perfluoroundecanoic acid (PFUn 620		81	ug/kg	DEN -LC-0012
Perfluorododecanoic acid (PFDo 780		81	ug/kg	DEN -LC-0012
Perfluorotridecanoic acid (PFT 230		81	ug/kg	DEN -LC-0012
Perfluorotetradecanoic acid (P 79 J		81	ug/kg	DEN -LC-0012
Perfluorobutane sulfonate (PFB 490		33	ug/kg	DEN -LC-0012
Perfluorohexane sulfonate (PFH 48		33	ug/kg	DEN -LC-0012
Perfluoroctane sulfonamide (F 260		81	ug/kg	DEN -LC-0012
Perfluoroctanesulfonate	250	33	ug/kg	DEN -LC-0012
Perfluoroctanoic Acid	300	81	ug/kg	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	110	33	ug/kg	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	130	33	ug/kg	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	120	33	ug/kg	DEN -LC-0012
Percent Moisture	38	0.10	%	ASTM D 2216-90

METHODS SUMMARY

D9J310193

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Method for Determination of Water Content of Soil	ASTM D 2216-90	ASTM D2216-90

References:

ASTM Annual Book Of ASTM Standards.

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

METHOD / ANALYST SUMMARY

D9J310193

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
ASTM D 2216-90	Braden H. Peterson	6733
DEN -LC-0012	Andria Lenoble	000800
DEN -LC-0012	Jacqueline Bonnett	003601
DEN -LC-0012	Teresa L. Williams	002510

References:

ASTM Annual Book Of ASTM Standards.

DEN Severn Trent Laboratores, Denver, Facility Standard Operating Procedure.

SAMPLE SUMMARY

D9J310193

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LNM5D	001	10-28-09-1 1975 HWY 52 EAST	10/28/09	10:35
LNM5F	002	10-28-09-2 55 SOUTH LAKE DR	10/28/09	11:46
LNM5G	003	10-28-09-3 1727 DENNIS MILL RD	10/28/09	13:20
LNM5H	004	10-28-09-4 208 MOUNTAIN TRAIL	10/28/09	14:45
LNM5J	005	10-28-09-5 3158 MORRIS RD	10/28/09	15:05
LNM5K	006	10-30-09-1 454 JIM PETTY RD	10/30/09	10:15
LNM5L	007	DUP	10/28/09	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Dalton Utilities

Client Sample ID: 10-28-09-1 1975 HWY 52 EAST

HPLC

Lot-Sample #....: D9J310193-001 Work Order #....: LNM5D1AD Matrix.....: SOLID
Date Sampled....: 10/28/09 10:35 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/05/09
Prep Batch #....: 9308329 Analysis Time...: 10:45
Dilution Factor: 10
† Moisture.....: 40 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	250	33	ug/kg	6.3
Perfluorooctanoic Acid	200	83	ug/kg	17
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
13C4 PFOA	104	(50 - 200)		
13C4 PFOS	113	(50 - 200)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-1 1975 HWY 52 EAST

HPLC

Lot-Sample #....: D9J310193-001 Work Order #....: LNM5D2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 10:35 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/19/09
 Prep Batch #....: 9308329 Analysis Time...: 23:02
 Dilution Factor: 10
 * Moisture.....: 40 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	19 J	33	ug/kg	5.7
Perfluoropentanoic acid (PFPA)	15 J	33	ug/kg	15
Perfluorohexanoic acid (PFHxA)	29 J	33	ug/kg	3.4
Perfluoroheptanoic acid (PFHpA))	18 J	33	ug/kg	12
Perfluorononanoic acid (PFNA)	97	33	ug/kg	8.3
Perfluorodecanoic acid (PFDA)	1200	33	ug/kg	13
Perfluoroundecanoic acid (PFUnA) A)	640	83	ug/kg	30
Perfluorododecanoic acid (PFDoA) A)	770	83	ug/kg	14
Perfluorotridecanoic acid (PFTriA)	340	83	ug/kg	19
Perfluorotetradecanoic acid (PFTeA)	ND	83	ug/kg	24
Perfluorobutane sulfonate (PFB-S)	160	33	ug/kg	14
Perfluorohexane sulfonate (PFHxS)	ND	33	ug/kg	13
Perfluorooctane sulfonamide (FOSA)	280	83	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	92	(50	- 200)
13C4 PFOA	101	(50	- 200)
13C4 PFOS	112	(50	- 200)
13C4 PFBA	115	(50	- 200)
13C2 PFHxA	109	(50	- 200)
18O2 PFHxS	113	(50	- 200)
13C5 PFNA	113	(50	- 200)
13C2 PFDA	107	(50	- 200)
13C2 PFUnA	118	(50	- 200)
13C2 PFDoA	116	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-1 1975 HWY 52 EAST

HPLC

Lot-Sample #....: D9J310193-001 Work Order #....: LNM5D3AD Matrix.....: SOLID
 Date Sampled...: 10/28/09 10:35 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 02:29
 Dilution Factor: 10
 % Moisture.....: 40 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluoroctanesulfonate	250	33	ug/kg	6.3
Perfluoroctanoic Acid	220	83	ug/kg	17
Perfluorobutanoic acid (PFBA)	27 J	33	ug/kg	5.7
Perfluoropentanoic acid (PFPA)	27 J	33	ug/kg	15
Perfluorohexanoic acid (PFHxA)	43	33	ug/kg	3.4
Perfluoroheptanoic acid (PFHpA)	39	33	ug/kg	12
)				
Perfluorononanoic acid (PFNA)	110	33	ug/kg	8.3
Perfluorodecanoic acid (PFDA)	1100	33	ug/kg	13
Perfluoroundecanoic acid (PFUnA)	640	83	ug/kg	30
A)				
Perfluorododecanoic acid (PFDoA)	780	83	ug/kg	14
A)				
Perfluorotridecanoic acid (PFTriA)	210	83	ug/kg	19
Perfluorotetradecanoic acid (PFTeA)	65 J	83	ug/kg	24
Perfluorobutane sulfonate (PFBs)	410	33	ug/kg	14
Perfluorohexane sulfonate (PFHxS)	ND	33	ug/kg	13
Perfluoroctane sulfonamide (FOSA)	240	83	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOA	90	(50	- 200)
13C4 PFOA	102	(50	- 200)
13C4 PFOS	88	(50	- 200)
13C4 PFBA	96	(50	- 200)
13C2 PFHxA	100	(50	- 200)
18O2 PFHxS	99	(50	- 200)
13C5 PFNA	100	(50	- 200)
13C2 PFDA	98	(50	- 200)
13C2 PFUnA	85	(50	- 200)
13C2 PFDoA	62	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-2 55 SOUTH LAKE DR

HPLC

Lot-Sample #....: D9J310193-002 Work Order #....: LNM5F1AD Matrix.....: SOLID
Date Sampled....: 10/28/09 11:46 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/05/09
Prep Batch #....: 9308329 Analysis Time...: 11:54
Dilution Factor: 5
% Moisture.....: 27

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	140	14	ug/kg	2.6
Perfluorooctanoic Acid	100	34	ug/kg	7.0
SURROGATE	PERCENT	RECOVERY		
		RECOVERY	LIMITS	
13C4 PFOA	104	(50	-	200)
13C4 PFOS	106	(50	-	200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-2 55 SOUTH LAKE DR

HPLC

Lot-Sample #....: D9J310193-002 Work Order #....: LNM5F2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 11:46 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/19/09
 Prep Batch #....: 9308329 Analysis Time...: 23:18
 Dilution Factor: 5
 † Moisture.....: 27 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	11 J	14	ug/kg	2.3
Perfluoropentanoic acid (PFPA)	16	14	ug/kg	6.0
Perfluorohexanoic acid (PFHxA)	17	14	ug/kg	1.4
Perfluoroheptanoic acid (PFHpA)	18	14	ug/kg	5.0
)				
Perfluorononanoic acid (PFNA)	43	14	ug/kg	3.4
Perfluorodecanoic acid (PFDA)	360	14	ug/kg	5.2
Perfluoroundecanoic acid (PFUnA)	140	34	ug/kg	12
A)				
Perfluorododecanoic acid (PFDoA)	190	34	ug/kg	5.6
A)				
Perfluorotridecanoic acid (PFTriA)	55	34	ug/kg	7.9
Perfluorotetradecanoic acid (PFTeA)	ND	34	ug/kg	9.9
Perfluorobutane sulfonate (PFBs)	110	14	ug/kg	5.7
Perfluorohexane sulfonate (PFHxS)	ND	14	ug/kg	5.3
Perfluorooctane sulfonamide (FOSA)	93	34	ug/kg	8.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
MeFOSA	97	(50 - 200)
13C4 PFOA	94	(50 - 200)
13C4 PFOS	103	(50 - 200)
13C4 PFBA	106	(50 - 200)
13C2 PFHxA	102	(50 - 200)
18O2 PFHxS	106	(50 - 200)
13C5 PFNA	99	(50 - 200)
13C2 PFDA	90	(50 - 200)
13C2 PFUnA	89	(50 - 200)
13C2 PFDoA	77	(50 - 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-2 55 SOUTH LAKE DR

HPLC

Lot-Sample #....: D9J310193-002 Work Order #....: LNM5F3AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 11:46 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 02:44
 Dilution Factor: 10
 * Moisture.....: 27 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	110	27	ug/kg	5.2
Perfluorooctanoic Acid	86	69	ug/kg	14
Perfluorobutanoic acid (PFBA)	8.2 J	27	ug/kg	4.7
Perfluoropentanoic acid (PFPA)	ND	27	ug/kg	12
Perfluorohexanoic acid (PFHxA)	16 J	27	ug/kg	2.8
Perfluoroheptanoic acid (PFHpA)	20 J	27	ug/kg	9.9
)				
Perfluorononanoic acid (PFNA)	45	27	ug/kg	6.9
Perfluorodecanoic acid (PFDA)	280	27	ug/kg	10
Perfluoroundecanoic acid (PFUnA)	120	69	ug/kg	25
A)				
Perfluorododecanoic acid (PFDoA)	180	69	ug/kg	11
A)				
Perfluorotridecanoic acid (PFTriA)	42 J	69	ug/kg	16
Perfluorotetradecanoic acid (PFTeA)	28 J	69	ug/kg	20
Perfluorobutane sulfonate (PFBs)	130	27	ug/kg	11
Perfluorohexane sulfonate (PFHxs)	ND	27	ug/kg	11
Perfluorooctane sulfonamide (FOSA)	76	69	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	92	(50	- 200)
13C4 PFOA	91	(50	- 200)
13C4 PFOS	71	(50	- 200)
13C4 PFBA	93	(50	- 200)
13C2 PFHxA	95	(50	- 200)
18O2 PFHxs	90	(50	- 200)
13C5 PFNA	90	(50	- 200)
13C2 PFDA	72	(50	- 200)
13C2 PFUnA	53	(50	- 200)
13C2 PFDoA	35 *	(50	- 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-3 1727 DENNIS MILL RD

HPLC

Lot-Sample #....: D9J310193-003 Work Order #....: LNM5G1AD Matrix.....: SOLID
Date Sampled....: 10/28/09 13:20 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/04/09
Prep Batch #....: 9308329 Analysis Time...: 20:49
Dilution Factor: 1
% Moisture.....: 22 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	120	2.6	ug/kg	0.48
Perfluorooctanoic Acid	63	6.4	ug/kg	1.3

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	77	(50 - 200)	
13C4 PFOS	93	(50 - 200)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-3 1727 DENNIS MILL RD

HPLC

Lot-Sample #....: D9J310193-003 Work Order #....: LNM5G2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 13:20 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/19/09
 Prep Batch #....: 9308329 Analysis Time...: 23:49
 Dilution Factor: 1
 % Moisture.....: 22 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	6.0	2.6	ug/kg	0.43
Perfluoropentanoic acid (PFPA)	7.2	2.6	ug/kg	1.1
Perfluorohexanoic acid (PFHxA)	9.1	2.6	ug/kg	0.26
Perfluoroheptanoic acid (PFHpA))	7.4	2.6	ug/kg	0.92
Perfluorononanoic acid (PFNA)	28	2.6	ug/kg	0.64
Perfluoroundecanoic acid (PFUn A)	92	6.4	ug/kg	2.3
Perfluorododecanoic acid (PFDo A)	100	6.4	ug/kg	1.0
Perfluorotridecanoic acid (PFT riA)	36	6.4	ug/kg	1.5
Perfluorotetradecanoic acid (P FTeA)	ND	6.4	ug/kg	1.9
Perfluorobutane sulfonate (PFB S)	51	2.6	ug/kg	1.1
Perfluorohexane sulfonate (PFH xS)	ND	2.6	ug/kg	0.99
Perfluorooctane sulfonamide (F OSA)	97	6.4	ug/kg	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	83	(50	- 200)
13C4 PFOA	104	(50	- 200)
13C4 PFOS	107	(50	- 200)
13C4 PFBA	99	(50	- 200)
13C2 PFHxA	97	(50	- 200)
18O2 PFHxS	105	(50	- 200)
13C5 PFNA	104	(50	- 200)
13C2 PFUnA	104	(50	- 200)
13C2 PFDoA	93	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-3 1727 DENNIS MILL RD

HPLC

Lot-Sample #....: D9J310193-003 Work Order #....: LNM5G4AD Matrix.....: SOLID
Date Sampled....: 10/28/09 13:20 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/21/09
Prep Batch #....: 9308329 Analysis Time...: 23:28
Dilution Factor: 10
% Moisture.....: 22 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorodecanoic acid (PFDA)	160	26	ug/kg	9.6
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
13C2 PFDA	68	(50 - 200)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-3 1727 DENNIS MILL RD

HPLC

Lot-Sample #....: D9J310193-003 Work Order #....: LNM5G3AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 13:20 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 02:59
 Dilution Factor: 10
 % Moisture.....: 22 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctanesulfonate	120	26	ug/kg	4.8
Perfluorooctanoic Acid	61 J	64	ug/kg	13
Perfluorobutanoic acid (PFBA)	5.5 J	26	ug/kg	4.3
Perfluoropentanoic acid (PFPA)	ND	26	ug/kg	11
Perfluorohexanoic acid (PFHxA)	12 J	26	ug/kg	2.6
Perfluoroheptanoic acid (PFHpA)	ND	26	ug/kg	9.2
)				
Perfluorononanoic acid (PFNA)	33	26	ug/kg	6.4
Perfluorodecanoic acid (PFDA)	210	26	ug/kg	9.6
Perfluoroundecanoic acid (PFUn A)	92	64	ug/kg	23
Perfluorododecanoic acid (PFDo A)	87	64	ug/kg	10
Perfluorotridecanoic acid (PFT ria)	24 J	64	ug/kg	15
Perfluorotetradecanoic acid (P FTeA)	ND	64	ug/kg	19
Perfluorobutane sulfonate (PFB S)	75	26	ug/kg	11
Perfluorohexane sulfonate (PFH xS)	ND	26	ug/kg	9.9
Perfluorooctane sulfonamide (F OSA)	81	64	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
MeFOSA	92	(50 - 200)
13C4 PFOA	100	(50 - 200)
13C4 PFOS	81	(50 - 200)
13C4 PFBA	97	(50 - 200)
13C2 PFHxA	100	(50 - 200)
18O2 PFHxS	96	(50 - 200)
13C5 PFNA	92	(50 - 200)
13C2 PFDA	85	(50 - 200)
13C2 PFUnA	62	(50 - 200)
13C2 PFDoA	43 *	(50 - 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-4 208 MOUNTAIN TRAIL

HPLC

Lot-Sample #....: D9J310193-004 Work Order #....: LNM5H1AD Matrix.....: SOLID
Date Sampled...: 10/28/09 14:45 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/05/09
Prep Batch #....: 9308329 Analysis Time...: 10:50
Dilution Factor: 10
% Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	470	32	ug/kg	6.1
Perfluorooctanoic Acid	190	81	ug/kg	16
SURROGATE	PERCENT	RECOVERY		
		RECOVERY	LIMITS	
13C4 PFOA	107	(50 - 200)		
13C4 PFOS	110	(50 - 200)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-4 208 MOUNTAIN TRAIL

HPLC

Lot-Sample #....: D9J310193-004 Work Order #....: LNM5H2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 14:45 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/20/09
 Prep Batch #....: 9308329 Analysis Time...: 00:05
 Dilution Factor: 10
 % Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	13 J	32	ug/kg	5.5
Perfluoropentanoic acid (PFPA)	18 J	32	ug/kg	14
Perfluorohexanoic acid (PFHxA)	34	32	ug/kg	3.2
Perfluoroheptanoic acid (PFHpA)	31 J	32	ug/kg	12
Perfluorononanoic acid (PFNA)	79	32	ug/kg	8.1
Perfluorodecanoic acid (PFDA)	1400	32	ug/kg	12
Perfluoroundecanoic acid (PFUn A)	670	81	ug/kg	29
Perfluorododecanoic acid (PFDo A)	480	81	ug/kg	13
Perfluorotridecanoic acid (PFT riA)	190	81	ug/kg	19
Perfluorotetradecanoic acid (PFTeA)	ND	81	ug/kg	23
Perfluorobutane sulfonate (PFB S)	94	32	ug/kg	13
Perfluorohexane sulfonate (PFH xs)	ND	32	ug/kg	12
Perfluorooctane sulfonamide (F OSA)	490	81	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
MeFOSA	83	(50 - 200)
13C4 PFOA	95	(50 - 200)
13C4 PFOS	102	(50 - 200)
13C4 PFBA	110	(50 - 200)
13C2 PFHxA	100	(50 - 200)
18O2 PFHxS	104	(50 - 200)
13C5 PFNA	106	(50 - 200)
13C2 PFDA	94	(50 - 200)
13C2 PFUnA	103	(50 - 200)
13C2 PFDoA	89	(50 - 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-4 208 MOUNTAIN TRAIL

HPLC

Lot-Sample #....: D9J310193-004 Work Order #....: LNM5H3AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 14:45 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 03:14
 Dilution Factor: 10
 % Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorooctanesulfonate	440	32	ug/kg	6.1
Perfluorooctanoic Acid	200	81	ug/kg	16
Perfluorobutanoic acid (PFBA)	17 J	32	ug/kg	5.5
Perfluoropentanoic acid (PFPA)	18 J	32	ug/kg	14
Perfluorohexanoic acid (PFHxA)	39	32	ug/kg	3.2
Perfluoroheptanoic acid (PFHpA)	35	32	ug/kg	12
)				
Perfluorononanoic acid (PFNA)	100	32	ug/kg	8.1
Perfluorodecanoic acid (PFDA)	1500	32	ug/kg	12
Perfluoroundecanoic acid (PFUn A)	690	81	ug/kg	29
Perfluorododecanoic acid (PFDo A)	470	81	ug/kg	13
Perfluorotridecanoic acid (PFT riA)	160	81	ug/kg	19
Perfluorotetradecanoic acid (P FTeA)	43 J	81	ug/kg	23
Perfluorobutane sulfonate (PFB S)	210	32	ug/kg	13
Perfluorohexane sulfonate (PFH xS)	ND	32	ug/kg	12
Perfluorooctane sulfonamide (F OSA)	410	81	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
MeFOSA	117	(50 - 200)
13C4 PFOA	128	(50 - 200)
13C4 PFOS	118	(50 - 200)
13C4 PFBA	120	(50 - 200)
13C2 PFHxA	126	(50 - 200)
18O2 PFHxS	116	(50 - 200)
13C5 PFNA	127	(50 - 200)
13C2 PFDA	118	(50 - 200)
13C2 PFUnA	113	(50 - 200)
13C2 PFDoA	83	(50 - 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-5 3158 MORRIS RD

HPLC

Lot-Sample #....: D9J310193-005 Work Order #....: LNM5J1AD Matrix.....: SOLID
Date Sampled....: 10/28/09 15:05 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/05/09
Prep Batch #....: 9308329 Analysis Time...: 11:59
Dilution Factor: 5
% Moisture.....: 41 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	150	17	ug/kg	3.2
Perfluorooctanoic Acid	200	42	ug/kg	8.6

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
13C4 PFOA	103	(50	- 200)
13C4 PFOS	104	(50	- 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-28-09-5 3158 MORRIS RD

HPLC

Lot-Sample #....: D9J310193-005 Work Order #....: LNM5J2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 15:05 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/20/09
 Prep Batch #....: 9308329 Analysis Time...: 00:21
 Dilution Factor: 5
 % Moisture.....: 41 Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorobutanoic acid (PFBA)	12 J	17	ug/kg	2.9
Perfluoropentanoic acid (PFPA)	16 J	17	ug/kg	7.4
Perfluorohexanoic acid (PFHxA)	15 J	17	ug/kg	1.7
Perfluoroheptanoic acid (PFHpA)	15 J	17	ug/kg	6.1
)				
Perfluorononanoic acid (PFNA)	37	17	ug/kg	4.2
Perfluorodecanoic acid (PFDA)	410	17	ug/kg	6.4
Perfluoroundecanoic acid (PFUnA)	150	42	ug/kg	15
A)				
Perfluorododecanoic acid (PFDoA)	190	42	ug/kg	6.9
A)				
Perfluorotridecanoic acid (PFTriA)	31 J	42	ug/kg	9.7
Perfluorotetradecanoic acid (PFTeA)	ND	42	ug/kg	12
Perfluorobutane sulfonate (PFB-S)	160	17	ug/kg	7.1
Perfluorohexane sulfonate (PFHxS)	ND	17	ug/kg	6.5
Perfluorooctane sulfonamide (FOSA)	70	42	ug/kg	10

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
MeFOSA	104	(50 - 200)
13C4 PFOA	131	(50 - 200)
13C4 PFOS	126	(50 - 200)
13C4 PFBA	133	(50 - 200)
13C2 PFHxA	120	(50 - 200)
18O2 PFHxS	126	(50 - 200)
13C5 PFNA	131	(50 - 200)
13C2 PFDA	122	(50 - 200)
13C2 PFUnA	109	(50 - 200)
13C2 PFDoA	78	(50 - 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-5 3158 MORRIS RD

HPLC

Lot-Sample #....: D9J310193-005 Work Order #....: LNM5J3AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 15:05 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 03:29
 Dilution Factor: 10
 % Moisture.....: 41 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	110	34	ug/kg	6.4
Perfluorooctanoic Acid	150	84	ug/kg	17
Perfluorobutanoic acid (PFBA)	ND	34	ug/kg	5.7
Perfluoropentanoic acid (PFPA)	ND	34	ug/kg	15
Perfluorohexanoic acid (PFHxA)	17 J	34	ug/kg	3.4
Perfluoroheptanoic acid (PFHpA)	18 J	34	ug/kg	12
)				
Perfluorononanoic acid (PFNA)	35	34	ug/kg	8.4
Perfluorodecanoic acid (PFDA)	370	34	ug/kg	13
Perfluoroundecanoic acid (PFUn	120	84	ug/kg	31
A)				
Perfluorododecanoic acid (PFDo	130	84	ug/kg	14
A)				
Perfluorotridecanoic acid (PFT	28 J	84	ug/kg	19
riA)				
Perfluorotetradecanoic acid (P	ND	84	ug/kg	24
FTeA)				
Perfluorobutane sulfonate (PFB	170	34	ug/kg	14
S)				
Perfluorohexane sulfonate (PFH	ND	34	ug/kg	13
xS)				
Perfluorooctane sulfonamide (F	50 J	84	ug/kg	21
OSA)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	118	(50	- 200)
13C4 PFOA	132	(50	- 200)
13C4 PFOS	107	(50	- 200)
13C4 PFBA	121	(50	- 200)
13C2 PFHxA	128	(50	- 200)
18O2 PFHxS	113	(50	- 200)
13C5 PFNA	122	(50	- 200)
13C2 PFDA	116	(50	- 200)
13C2 PFUnA	98	(50	- 200)
13C2 PFDoA	66	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-30-09-1 454 JIM PETTY RD

HPLC

Lot-Sample #....: D9J310193-006 Work Order #....: LNM5K1AD Matrix.....: SOLID
Date Sampled....: 10/30/09 10:15 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/04/09
Prep Batch #....: 9308329 Analysis Time...: 21:09
Dilution Factor: 1
% Moisture.....: 16 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	16	2.4	ug/kg	0.45
Perfluorooctanoic Acid	42	6.0	ug/kg	1.2

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
13C4 PFOA	104	(50 - 200)	
13C4 PFOS	101	(50 - 200)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-30-09-1 454 JIM PETTY RD

HPLC

Lot-Sample #....: D9J310193-006 Work Order #....: LNM5K2AD Matrix.....: SOLID
 Date Sampled....: 10/30/09 10:15 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/20/09
 Prep Batch #....: 9308329 Analysis Time...: 00:37
 Dilution Factor: 1
 % Moisture.....: 16 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	5.4	2.4	ug/kg	0.41
Perfluoropentanoic acid (PFPA)	5.2	2.4	ug/kg	1.1
Perfluorohexanoic acid (PFHxA)	7.0	2.4	ug/kg	0.24
Perfluoroheptanoic acid (PFHpA)	7.1	2.4	ug/kg	0.86
)				
Perfluorononanoic acid (PFNA)	16	2.4	ug/kg	0.60
Perfluoroundecanoic acid (PFUnA)	94	6.0	ug/kg	2.2
Perfluorotridecanoic acid (PFTriA)	40	6.0	ug/kg	1.4
Perfluorotetradecanoic acid (PFTeA)	ND	6.0	ug/kg	1.7
Perfluorobutane sulfonate (PFBs)	26	2.4	ug/kg	1.0
Perfluorohexane sulfonate (PFHxs)	ND	2.4	ug/kg	0.92
Perfluorooctane sulfonamide (FOSA)	82	6.0	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOA	78	(50	- 200)
13C4 PFOA	105	(50	- 200)
13C4 PFOS	97	(50	- 200)
13C4 PFBA	89	(50	- 200)
13C2 PFHxA	88	(50	- 200)
18O2 PFHxS	95	(50	- 200)
13C5 PFNA	98	(50	- 200)
13C2 PFUnA	103	(50	- 200)
13C2 PFDoA	92	(50	- 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-30-09-1 454 JIM PETTY RD

HPLC

Lot-Sample #....: D9J310193-006 Work Order #....: LNM5K4AD Matrix.....: SOLID
Date Sampled....: 10/30/09 10:15 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/21/09
Prep Batch #....: 9308329 Analysis Time...: 23:43
Dilution Factor: 10
% Moisture.....: 16 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorodecanoic acid (PFDA)	140	24	ug/kg	9.0
Perfluorododecanoic acid (PFDoA)	120	60	ug/kg	9.8

A)

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C2 PFDA	66	(50	- 200)
13C2 PFDoA	31 *	(50	- 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: 10-30-09-1 454 JIM PETTY RD

HPLC

Lot-Sample #....: D9J310193-006 Work Order #....: LNM5K3AD Matrix.....: SOLID
 Date Sampled....: 10/30/09 10:15 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 03:44
 Dilution Factor: 10
 % Moisture.....: 16 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluoroctanesulfonate	13 J	24	ug/kg	4.5
Perfluoroctanoic Acid	42 J	60	ug/kg	12
Perfluorobutanoic acid (PFBA)	4.7 J	24	ug/kg	4.1
Perfluoropentanoic acid (PFPA)	ND	24	ug/kg	11
Perfluorohexanoic acid (PFHxA)	11 J	24	ug/kg	2.4
Perfluoroheptanoic acid (PFHpA)	ND	24	ug/kg	8.6
)				
Perfluorononanoic acid (PFNA)	19 J	24	ug/kg	6.0
Perfluorodecanoic acid (PFDA)	200	24	ug/kg	9.0
Perfluoroundecanoic acid (PFUn	93	60	ug/kg	22
A)				
Perfluorododecanoic acid (PFDo	170	60	ug/kg	9.8
A)				
Perfluorotridecanoic acid (PFT	25 J	60	ug/kg	14
riA)				
Perfluorotetradecanoic acid (P	19 J	60	ug/kg	17
FTeA)				
Perfluorobutane sulfonate (PFB	46	24	ug/kg	10
S)				
Perfluorohexane sulfonate (PFH	ND	24	ug/kg	9.2
xs)				
Perfluoroctane sulfonamide (F	70	60	ug/kg	15
OSA)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
MeFOSA	120	(50	- 200)
13C4 PFOA	127	(50	- 200)
13C4 PFOS	111	(50	- 200)
13C4 PFBA	119	(50	- 200)
13C2 PFHxA	124	(50	- 200)
18O2 PFHxS	119	(50	- 200)
13C5 PFNA	121	(50	- 200)
13C2 PFDA	111	(50	- 200)
13C2 PFUnA	93	(50	- 200)
13C2 PFDoA	63	(50	- 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: DUP

HPLC

Lot-Sample #....: D9J310193-007 Work Order #....: LNM5L1AD Matrix.....: SOLID
Date Sampled....: 10/28/09 Date Received...: 10/31/09
Prep Date.....: 11/04/09 Analysis Date...: 12/05/09
Prep Batch #....: 9308329 Analysis Time...: 10:55
Dilution Factor: 10
* Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanesulfonate	210	33	ug/kg	6.1
Perfluorooctanoic Acid	180	81	ug/kg	17

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
13C4 PFOA	107	(50 - 200)	
13C4 PFOS	110	(50 - 200)	

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Dalton Utilities

Client Sample ID: DUP

HPLC

Lot-Sample #....: D9J310193-007 Work Order #....: LNM5L2AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 Date Received...: 10/31/09
 Prep Date.....: 11/04/09 Analysis Date...: 12/20/09
 Prep Batch #....: 9308329 Analysis Time...: 00:53
 Dilution Factor: 10
 % Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	19 J	33	ug/kg	5.5
Perfluoropentanoic acid (PFPA)	17 J	33	ug/kg	14
Perfluorohexanoic acid (PFHxA)	31 J	33	ug/kg	3.3
Perfluoroheptanoic acid (PFHpA)	23 J	33	ug/kg	12
)			
Perfluorononanoic acid (PFNA)	79	33	ug/kg	8.1
Perfluorodecanoic acid (PFDA)	920	33	ug/kg	12
Perfluoroundecanoic acid (PFUnA)	510	81	ug/kg	29
	A)			
Perfluorododecanoic acid (PFDoA)	640	81	ug/kg	13
	A)			
Perfluorotridecanoic acid (PFTriA)	200	81	ug/kg	19
Perfluorobutane sulfonate (PFBs)	140	33	ug/kg	14
Perfluorohexane sulfonate (PFHxs)	ND	33	ug/kg	13
Perfluorooctane sulfonamide (FOSA)	220	81	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
MeFOSA	88	(50 - 200)
13C4 PFOA	97	(50 - 200)
13C4 PFOS	106	(50 - 200)
13C4 PFBA	113	(50 - 200)
13C2 PFHxA	103	(50 - 200)
18O2 PFHxS	105	(50 - 200)
13C5 PFNA	103	(50 - 200)
13C2 PFDA	97	(50 - 200)
13C2 PFUnA	99	(50 - 200)
13C2 PFDoA	86	(50 - 200)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: DUP

HPLC

Lot-Sample #....: D9J310193-007 Work Order #....: LNM5L3AD Matrix.....: SOLID
 Date Sampled....: 10/28/09 Date Received...: 10/31/09
 Prep Date.....: 12/23/09 Analysis Date...: 01/03/10
 Prep Batch #....: 9357164 Analysis Time...: 04:44
 Dilution Factor: 10
 % Moisture.....: 38 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluoroheptanoic acid (PFHpA)	110	33	ug/kg	12
Perfluorononanoic acid (PFNA)	180	33	ug/kg	8.1
Perfluorodecanoic acid (PFDA)	1100	33	ug/kg	12
Perfluoroundecanoic acid (PFUn A)	620	81	ug/kg	29
Perfluorododecanoic acid (PFDo A)	780	81	ug/kg	13
Perfluorotridecanoic acid (PFT riA)	230	81	ug/kg	19
Perfluorotetradecanoic acid (PFTeA)	79 J	81	ug/kg	24
Perfluorobutane sulfonate (PFB S)	490	33	ug/kg	14
Perfluorohexane sulfonate (PFH xS)	48	33	ug/kg	13
Perfluoroctane sulfonamide (F OSA)	260	81	ug/kg	20
Perfluoroctanesulfonate	250	33	ug/kg	6.1
Perfluoroctanoic Acid	300	81	ug/kg	17
Perfluorobutanoic acid (PFBA)	110	33	ug/kg	5.5
Perfluoropentanoic acid (PFPA)	130	33	ug/kg	14
Perfluorohexanoic acid (PFHxA)	120	33	ug/kg	3.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(50 - 200)	(50 - 200)
MeFOSA	94	(50 - 200)	(50 - 200)
13C4 PFOA	106	(50 - 200)	(50 - 200)
13C4 PFOS	90	(50 - 200)	(50 - 200)
13C4 PFBA	99	(50 - 200)	(50 - 200)
13C2 PFHxA	84	(50 - 200)	(50 - 200)
18O2 PFHxS	99	(50 - 200)	(50 - 200)
13C5 PFNA	102	(50 - 200)	(50 - 200)
13C2 PFDA	96	(50 - 200)	(50 - 200)
13C2 PFUnA	86	(50 - 200)	(50 - 200)
13C2 PFDoA	61	(50 - 200)	(50 - 200)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: 10-28-09-1 1975 HWY 52 EAST

General Chemistry

Lot-Sample #....: D9J310193-001 Work Order #....: LNM5D Matrix.....: SOLID
Date Sampled...: 10/28/09 10:35 Date Received...: 10/31/09
% Moisture.....: 40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP	BATCH #
					ANALYSIS DATE		
Percent Moisture	40	0.10	%	ASTM D 2216-90	11/05/09		9309151
		Dilution Factor: 1		Analysis Time...: 14:00		MDL.....: 0.0	

Dalton Utilities

Client Sample ID: 10-28-09-2 55 SOUTH LAKE DR

General Chemistry

Lot-Sample #....: D9J310193-002 Work Order #....: LNM5F Matrix.....: SOLID
Date Sampled...: 10/28/09 11:46 Date Received...: 10/31/09
* Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	27	0.10	%	ASTM D 2216-90	11/05/09	9309151
		Dilution Factor: 1		Analysis Time...: 14:00		MDL.....: 0.0

Dalton Utilities

Client Sample ID: 10-28-09-3 1727 DENNIS MILL RD

General Chemistry

Lot-Sample #....: D9J310193-003 Work Order #....: LNM5G Matrix.....: SOLID
Date Sampled...: 10/28/09 13:20 Date Received...: 10/31/09
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP	BATCH #
					ANALYSIS DATE		
Percent Moisture	22	0.10	%	ASTM D 2216-90	11/05/09		9309151
		Dilution Factor: 1			Analysis Time...: 14:00	MDL.....: 0.0	

Dalton Utilities

Client Sample ID: 10-28-09-4 208 MOUNTAIN TRAIL

General Chemistry

Lot-Sample #....: D9J310193-004 Work Order #....: LNM5H Matrix.....: SOLID
Date Sampled....: 10/28/09 14:45 Date Received...: 10/31/09
% Moisture.....: 38

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	38	0.10	%	ASTM D 2216-90	11/05/09	9309151
		Dilution Factor: 1		Analysis Time...: 14:00		MDL.....: 0.0

Dalton Utilities

Client Sample ID: 10-28-09-5 3158 MORRIS RD

General Chemistry

Lot-Sample #....: D9J310193-005 Work Order #....: LNMSJ Matrix.....: SOLID
Date Sampled...: 10/28/09 15:05 Date Received...: 10/31/09
% Moisture....: 41

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	41	0.10	%	ASTM D 2216-90	11/05/09	9309151
		Dilution Factor: 1		Analysis Time...: 14:00		MDL.....: 0.0

Dalton Utilities

Client Sample ID: 10-30-09-1 454 JIM PETTY RD

General Chemistry

Lot-Sample #....: D9J310193-006 Work Order #....: LNM5K Matrix.....: SOLID
Date Sampled...: 10/30/09 10:15 Date Received...: 10/31/09
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	16	0.10	%	ASTM D 2216-90	11/05/09	9309151
		Dilution Factor: 1		Analysis Time...: 14:00		MDL.....: 0.0

Dalton Utilities

Client Sample ID: DUP

General Chemistry

Lot-Sample #....: D9J310193-007

Work Order #....: LNM5L

Matrix.....: SOLID

Date Sampled...: 10/28/09

Date Received..: 10/31/09

% Moisture....: 38

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP	BATCH #
Percent Moisture	38	0.10	#	ASTM D 2216-90	ANALYSIS DATE	11/05/09	9309151
		Dilution Factor:	1	Analysis Time...: 14:00	MDL.....	: 0.0	